# TONDL, A. Dangerous vibrations of rotors, p. 657. STROJIRENSTVI. (Ministerstvo tezkeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju) Praha, Czechoslovakia, Vol. 9, no. 9, Sept. 1959. Monthly List of East European Accessions (EEAI), LC, Vol. 9, no. 1, Jan, 1960 Uncl.

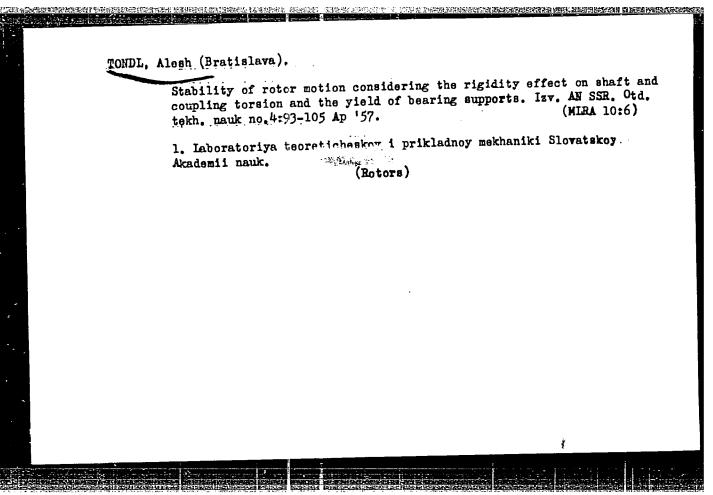
TONDL, Ales, dr.,inz.,C.Sc.

International symposium on non-linear oscillations in Kiev.
Stroj cas 13 no.2:203-205 '62.

TONDL, Ales, dr. inz., ScC.

Analysis of the motion of a single-disk rotor on vertical shaft mounted in journal bearings. Stroj cas 14 no.4:293-304 163.

1. Statni vyzkumny ustav tepelne techniky, Praha.

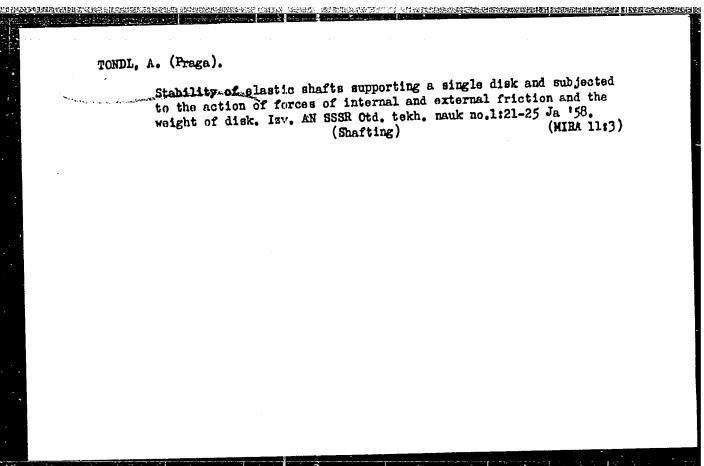


TONDL, A.

The Wibration and stability of elastically supported rotors. p. 23.

Vol. 65, no. 5, 1955 ROZPRAVY RADA TECHNICKO-VEDECKA Fraha, Czechoslovakia

So: Eastern European Accession Vol. 5 No. 4 April 1956



# TONDL, A.

Periodic movement of rotors with nonlinear characteristics of supports. p. 35. (STUDII SI CLERCETARI DE MECANICA APLICATA. Vol. 8, no. 1, Jan/Mar. 1957. Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957. Uncl.

Fondl, A

Tondl, A.; Simek, J.

Tondl, A.; Simek, J. Vibrations on an unbalanced rotor with regard to the effect of unequal solidity fo bearing stands in two directions and the torsion solidity of the coupling. p. 273.

Vol. 7, no. 5, 1956 STROJNOELEKTROTECHNICKY CASOPIS TECHNOLOGY Czechoslovakia

So: East European Accessions, Vol. 6, May 1957

· TONDL, A.

AUTHOR: Tondl, A. (Prague).

24-1-3/26

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TITLE:

On the stability of a flexible shaft with one disc taking into consideration the effect of forces of internal and external damping and the effect of the weight of the disc. (Ob ustoychivosti gibkogo vala s odnim diskom pri deystvii sil vnutrennego i vneshnego treniy i vesa diska).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, No.1, pp. 21-25 (USSR).

ABSTRACT: The stability of a flexible shaft with a disc at the centre of the shaft, taking into consideration the effects of damping by internal and external friction, has been investigated by numerous authors. For instance, F. M. Dimentberg, (Refs. 1-3), has solved the non-linear problem without taking into consideration the weight of the disc. M. I. Chayevskiy (Refs.4 and 5) published experimental results relating to the influence of friction. In this paper the stability is investigated of a rotor, taking into consideration internal damping (caused by the material of the shaft itself) and external damping for a horizontal shaft, i.e. taking into consideration the effect of the weight of the disc. The movement of the

On the stability of a flexible shaft with one disc taking into consideration the effect of forces of internal and external damping and the effect of the weight of the disc.

disc is expressed first in terms of rotating coordinates of the system ( $\{\cdot,\mu\}$ ) ( $\{\cdot,\pm\}$ ) =  $\{\cdot,\pm\}$  (see Fig.1). Then, the Carthesian coordinates  $\{\cdot,\pm\}$ ,  $\{\cdot,\pm\}$  are substituted by polar coordinates  $\{\cdot,\pm\}$ ,  $\{\cdot,\pm\}$  are substituted by polar coordinates  $\{\cdot,\pm\}$ ,  $\{\cdot,\pm\}$  are substituted by polar force  $\{\cdot,\pm\}$  is expressed by a non-linear function of the speed and the deflection, Eq.(8); the vector of the force  $\{\cdot,\pm\}$  is not considered as being generally coincident with the direction of the speed  $\{\cdot,\pm\}$ . The result of the solution is the establishment of necessary and adequate conditions of stability of the movement expressed by the inequalities (19) and (20), whereby  $\{\cdot,\pm\}$  is the coefficient of external damping and  $\{\cdot,\pm\}$  and  $\{\cdot,\pm\}$  are respectively the coefficient of the radial and tangential components of the internal damping which are dependent on the sag of the shaft  $\{\cdot,\pm\}$  is the frequency of the natural oscillations of the rotor and  $\{\cdot,\pm\}$  is the angular speed of rotation of the shaft.  $\{\cdot,\pm\}$  is the derivation according to  $\{\cdot,\pm\}$  of the coefficient  $\{\cdot,\pm\}$ . The inequality (19) is always fulfilled. If the inequality (23) is fulfilled, the movement of the rotor will be stable in

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On the stability of a flexible shaft with one disc taking into consideration the effect of forces of internal and external damping and the effect of the weight of the disc.

the entire range of  $\omega$ . However, if the inequality (23) is not fulfilled, an upper limit of stable  $\omega$  values will exist. The tangential component of the internal damping reduces this limit, whilst the radial component of the internal damping and the external component increase this limit.

 $\kappa \mathbf{\Lambda}^{2} \left( \kappa + \frac{\delta_{1}}{R\omega} \right) - \frac{1}{R} \delta_{2} \delta_{2}' > 0 \qquad , \quad (19)$ 

 $\omega < \frac{\kappa \mathbf{n}^2 \delta_1}{\delta_1 \delta_2' + \kappa^2 \mathbf{R} \mathbf{n}^2} \tag{20}$ 

 $D^2 \searrow \frac{h_2}{cR} \frac{h_2^1}{c} \tag{23}$ 

There are 3 figures, 6 figures - 5 Russian, 1 English.

SUBMITTED: July 15, 1957.

AVAILABLE: Library of Congress.

Card 3/3

222山

R/008/60/000/005/002/014

A231/A126

24,4000

1538, 1539, 1395

AUTHOR:

Tondl, Ales

TITLE:

The influence exerted by the elastic support of foundations on the self-excited oscillations of rotors, due to the action of

the lubricating oilfilm in journal bearings

PERIODICAL:

Studii și Cercetări de Mecanică Aplicată, no. 5, 1960, 1103 -

1116

TEXT: Self-excited oscillations of rotors due to the lubricating oilfilm in journal bearings have been examined by various authors and by the
National Institute of Thermctechnical Investigations in Prague. Self-excited oscillations are produced in case of a revolution rate twice as high as
the critical speed. Brief reference is made to the most important results
and to the rotors of uniform mass distribution used by 0. Pinkus (Ref. 5:
Experimental Investigation of Resonant Whip, Trans. ASME, July, 1956). The
frequency of self-excited oscillations is always equal to the lowest inherent frequency of the rotor. The author now examines which of the frequencies of the whole system (machine and its foundation will) match the frequen-

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22214 R/008/60/000/005/002/014 A231/A126

The influence exerted by the elastic support...

cy of the self-excited oscillations. He used an installation previously described. In the present article he just mentions the modifications applied to the performance of the latest experiments. The chassis, formerly fixed on a concrete base, was now fixed partially on porous-rubber blocks and partially on steel springs. Thus, a better damping has been achieved. The motor, formerly fixed on a free elastic support, was now rigidly fixed on the foundation. All data were taken with the same rotor: shaft diameter 40 mm, length of the shaft between the centers of the journal bearings 1,420 mm, weight of the disc 35.8 kg. The rotor had a critical revolution rate of 1,020 min-1. In the ideal case, four revolutions are obtained, two of which are subtracted from the own frequencies of the foundation and the other two from the rotor's frequency. In the present case, the revolutions were practically equal with  $n_{03} = 1,310 \text{ min}^{-1}$ . The revolutions deduced from the elastic support were  $n_{01} = 325 \text{ min}^{-1}$  and  $n_{02} = 570 \text{ min}^{-1}$  ( $n_{01}$ ,  $n_{02}$ ,  $n_{03} = \text{critical revolutions, min}^{-1}$ ). The rotor was supported by two types of cylindrical bearings and bearings with elastic elements. All bearings had a length of 1 = 40 mm. The diameter of the shaft was d = 40 mm. The cylindrical bearings had a tolerance of  $2\delta$  = 0.4 mm. The bearings with

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APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756220020-6"

222114 R/008/60/000/005/002/014 A231/A126

The influence exerted by the elastic support...

elastic elements fixed on a rigid foundation presented either great resistance to the self-excited oscillation of the bearing (in case of a 20 = 0.20 mm bearing,  $\Phi$  = 43.8 mm), or a relatively low resistance (in case of a  $2\delta = 0.30$  mm bearing,  $\Phi = 43.6$  mm, and  $2\delta = 0.20$  mm,  $\Phi = 45$  mm). The author recorded the relative motion of the disc against the chassis and the motion of the chassis in vertical and horizontal directions. Deviations of 0.2 mm of the disc and of 0.1 mm of the chassis could be recorded. A TESLA capacity indicator has been used as measuring instrument. The frequency of the self-excited oscillations is equal to the frequency of the whole mechanical system, subtracted from the lowest frequency of the rotor. The most important results of each type of rotor are compiled in Table 1. The relative motion of the disc against the chassis has no greater amplitude, except at a critical number of revolutions nos [Abstracter's Note: should possibly read ns] and at the production of self-excited oscillations. The horizontal component of the motion accomplished by the chassis has great amplitudes for no1, no3, ns. For all these components of the motion of the rotor chassis, the oscillations attain the maximum amplitude at the production of self-excited oscillations. If the rotor is assembled on bearings with three elastic elements (2 $\delta$  = 0.20 mm,  $\bar{\Psi}$  = 43.8 mm) no self-excited oscillations

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The influence exerted by the elastic support...

are produced. The recordings reproduce only the damage traces. The following results have been obtained: 1) The frequency of the self-excited oscillation is equal to the frequency of the whole system, subtracted from the lowest frequency of the rotor; 2) Intense oscillations are produced at the rotor and foundation; 3) In case of a shaft revolution contrary to the free extremities of the elastic elements, a reduction of the limit ratio of the production of self-excited oscillations against a rigid support of the rotor could be established at cylindrical bearings and bearings with four elastic elements, but generally, no reduction of the absolute value of the limit revolution of the production of self-excited oscillations could be established; 4) In case of a shaft revolution contrary to the free extremities of the elastic elements of a bearing with three elements, no self-excited oscillation was produced; 5) In a counter-clockwise revolution of the shaft, no self-excited oscillations were recorded at bearings with elastic elements. The assembly of a machine on a foundation with low frequency does not represent a serious danger for the self-excited oscillations, as long as the operation of the machine is smooth on a rigid foundation. There are 11 figures, 1 table, and 8 references: 2 Soviet-bloc and 6 non-Soviet-

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n/008/65/000/005/002/014

The influence exerted by the elactic support...

bloc. The most recent reference to an English-language publication reads as follows: A Tondl, Experimental Investigation of Self-Excited Vibration of Rotors Due to Action of the Lubricating Oil Film, in Journal Bearings Monography? SVUTT, SNTL, Praha, 1960.

ASSOCIATION: Vyzkumny ustav tepelne technicky C. A. V. (Thermo-technical Research Institute of the Czechoslovak Academy of Science) in Prague

SUBMITTED: March 21, 1960

Table 1: I - bearing type; II - data regarding the bearings; III - clockwise revolution of the rotor; IV - counter-clockwise revolution of the rotor; V - self-excited oscillations with great amplitude; VI - no self-excited oscillations, only small damages were produced, stable percussions; vII - in case the revolution increases, the amplitude of the self-excited oscillations increases after exceeding the limits; VIII - self-excited oscillations of great amplitude; IX - there are no self-excited oscillations)

card 5/6

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	The influence	ce exerted	by the	elasti	<b>c</b> suppo	R/008/60, prt A231/A126	222山 /000/005/002/014 5	
	Table 1: (continued)	I Tipul lagărului	Date privitoare la lagăre	Sensul rotirii rotorului în direcția acelor de ceasornic			Sensul rotirit	
				9,	q <sub>a</sub>	•	lor de	
			28-40	2,5 — 3,0	1,4 — 1,7	oscilații autoexcitate cu am- plitudine mare		
•			2 δ — 20 Φ — 43,8		-	VI nu s-au produs oscilații auto- excitate. Nu se produc decit mici avarii. percuție stabilă	Ī	
			2 δ — 20 Φ — 45	2,7—3,25	1	amplitudinea oscilațiilor au- toexcltate, după depășirea limitelor de producere crește ușor, atunci cind numărul de turații crește. Limita de for- mare depinde intrucitva de temperatura ulciului	nu există os- cilații auto- excitate	
	Card 6/6		$2\delta - 30$ $\Phi - 43.6$	2,7 — 3,0	1.3 - 23	V(ij oscilații autoexcitate cu am- plitudine mare		

20860

Z/041/61/000/001/001/001 E073/E335

18.8200 4016, 1418, also 2807

AUTHOR: Tondl, Ales, Doctor Engineer, Candidate of Sciences

TITLE: Stability of Motion of a Rotor with n Discs on a

Shaft with Nonuniform Rigidity

PERIODICAL: Strojnícky časopis, 1961, No. 1, pp. 5 - 7

TEXT: The stability is calculated of a rotor consisting of n discs fitted on a shaft with different bending rigidities in the two directions, i.e. a shaft which is weakened along its entire length by grooves, or a shaft with a non-circular cross-section. The gyroscopic effect is disregarded in the calculations. On the basis of the kinetic-energy and the potential-energy equations, a system of differential equations is derived, using the second-type Lagrange equations. It is concluded from these that if I<sub>1</sub> is a minimum and I<sub>2</sub> the maximum moment of inertia of the shaft cross-section, which are

maximum moment of inertia of the shaft cross-section, which are assumed constant throughout the length of the shaft, there will be n unstable regions which are defined by the inequality

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Stability of Motion ....

$$\Omega_{k}^{2}(1-\mu) < \omega^{2} < \Omega_{k}^{2}(1+\mu), \quad (k=1, 2, 3, ..., n)$$
 (7)

 $\Omega_k$  (k = 1, 2, 3, ..., n) are the resonant frequencies of the system provided that the average values of the moment of inertia  $I=(I_1+I_2)/2$  and  $\mu=(I_2-I_1)/(I_1+I_2)$  are applied. These are the only unstable regions Running through an unstable region will be the more dangerous the higher the value k of this region. If, however, the condition that the weakening of the shaft is the same throughout the entire length of the rotor is not fulfilled or if the rotor is supported by several bearings and the shaft is grooved in one field and not grooved in the other, it will no longer be possible to determine easily the regions of instability and,

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20860

Stability of Motion ....

Z/041/61/000/001/001/001 E073/E335

in addition to n basic regions of instability, other instability regions will occur. There is 1 Czech reference.

ASSOCIATION:

Statni výzkumný ústav tepelné techniky, Praha (State Thermotechnical Research Institute,

Prague)

SUBMITTED:

February 4, 1960

Card 3/3

TONDL, A.

Influence of oil film on the stability of the motion of a journal in a bearing and the development of self-excited vibrations of a rotor. p. 1-59.
ROZPRAVY, RADA TECHNICKO-VEDECKA, Prague, Vol. 66, no. 2, 1956.

SO: Monthly List of East European Accessiona, (EEAL), LC, Vol. 5, no. 6 June 1956, Uncl.

THEORY OF MACHINES

AUTHOR:

Tondl A. (Bratislava).

24-4-13/34

TITLE:

On the stability of movement of the rotor, taking into consideration the influence of the torsion rigidity of the shaft and of the coupling and the influence of the flexibility of the bearing supports. (Ob ustoychivosti dvizheniya rotora s uchetom vliyaniya zhestkosti na krucheniye vala i mufty i podatlivosti stoyek podshipnikov).

PERIODICAL:

"Izv. Ak. Nauk, Otd. Tekh. Nauk" (Bulletin of the Ac. Sc., Technical Sciences Section), 1957, No.4, pp.93-105 (USSR).

ABSTRACT:

Dimentberg, F.M. (Izv. Ak. Nauk, Otd. Tekh. Nauk, 1954, No.10) considered the influence of the rigidity and the internal friction, disregarding the influence of the rotor weight; in studying the stability he arrived at differential equations of the disturbed motion with constant coefficients. In earlier work of the author (4) certain cases of elastically supported rotors are considered. In this paper the influence of the flexibility of bearing supports and of the torsion rigidity of the shaft and the coupling on the stability of periodic oscillations caused by unbalances in the rotor are studied. The here given solution supplements the earlier work of the author in which only a periodic solution was given. The aim of the work is not only to obtain a solution for the given case

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On the stability of movement of the rotor, taking into consideration the influence of the torsion rigidity of the shaft and of the coupling and the influence of the flexibility of the bearing supports (Cont.). 24-4-13/34

but also to emphasize that the method of Shimanov, S.N. (5) can be used in a number of other cases, particularly for investigating the stability of solutions of non-linear systems in cases in which all the non-linear functions are analytical in a certain zone and are multiplied by a small parameter. As a result of the solution, approximate values are determined of the rotor r.p.m. for which a disturbance in the stability of the periodic solution may occur. If w is the angular speed of the rotor, the frequency of the natural bending oscillations of the rotor in the horizontal direction, A2 frequency of the natural bending oscillations of the rotor in the vertical direction and A3 the frequency of the natural torsion oscillations of the rotor, disturbances may occur for:

 $\omega = \left| \Omega_1 + \Omega_3 \right|, \quad \omega = \left| \Omega_2 + \Omega_3 \right|$ 

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This possible disturbance of the stability is valid only in the case of low damping and bad balancing of the rotor. The result emphasises the importance of thorough balancing of rotary machinery. It was found that application of a

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On the stability of movement of the rotor, taking into consideration the influence of the torsion rigidity of the shaft and of the coupling and the influence of the flexibility of the bearing supports (Cont.). 24-4-13/34

coupling with a low torsion stability increases the possibility of loss of stability. The flexibility of the bearing supports have practically no effect on the stability of the periodic oscillations.

There are 2 figures, 9 references, 5 of which are Russian.

ASSOCIATION: Laboratory of Theoretical and Applied Mechanics, Slovak Ac.Sc. (Laboratoriya teoreticheskoy i prikladnoy

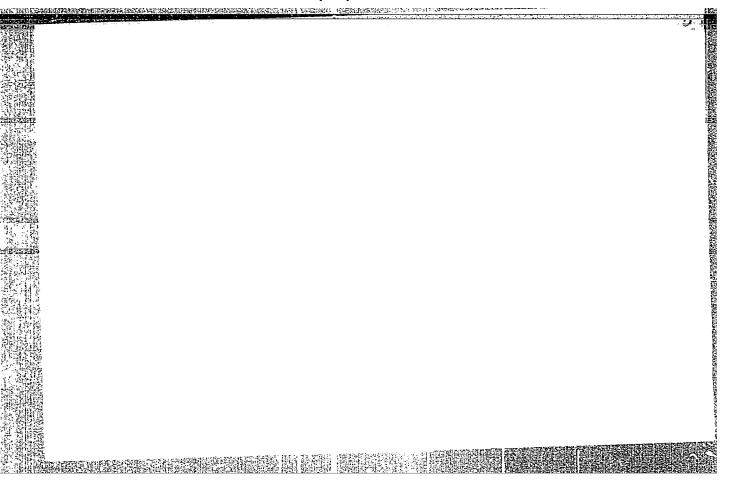
mekhaniki Slovatskoy Akademii nauk).

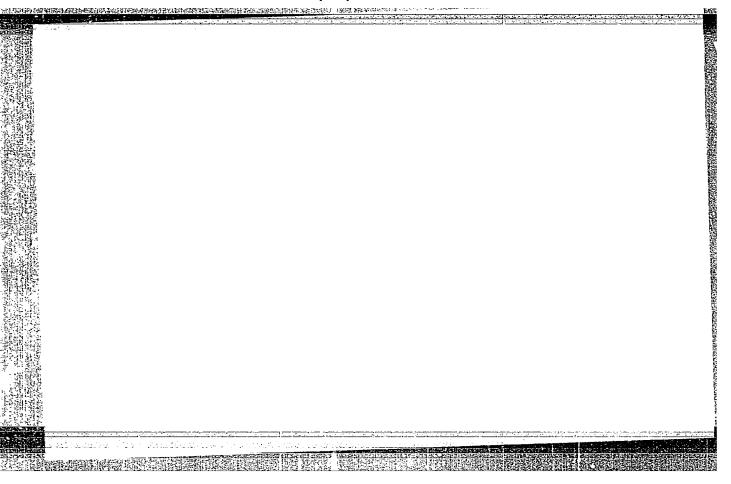
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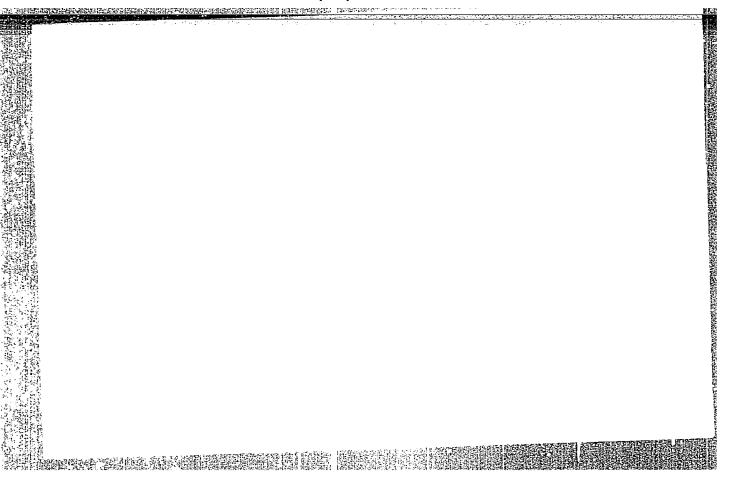
December 4, 1956.

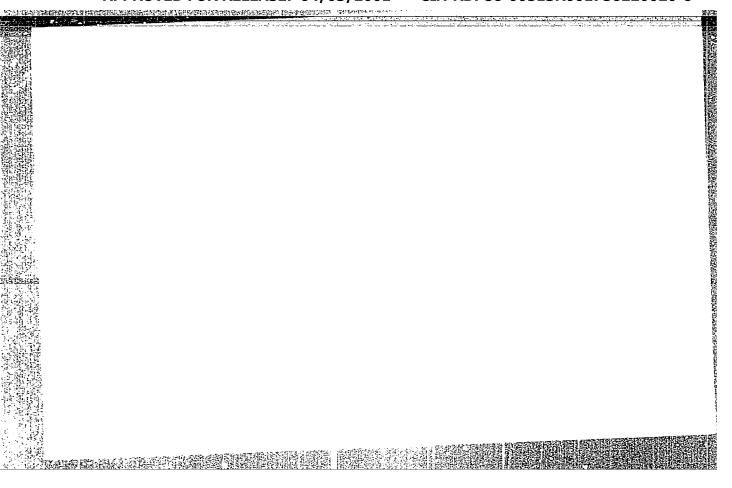
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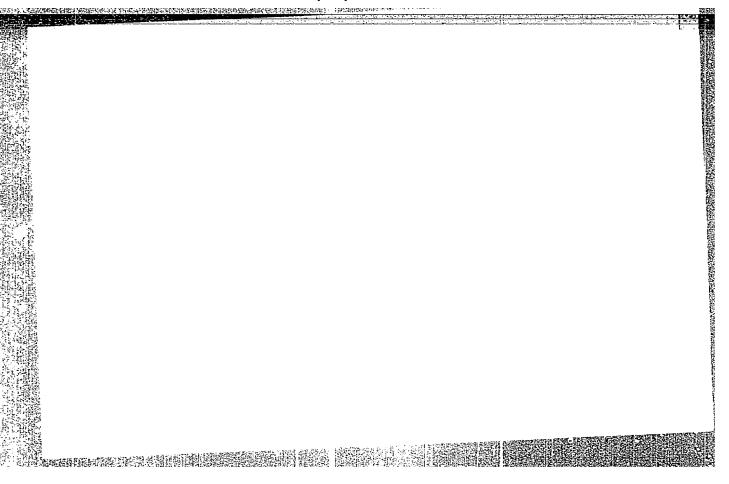
Card 3/3











TONDL, L.; NEKOLA, Y.; VOBORNIK, B.

Role of science in modern society. Vest.AN SSSR 35 no.8:56-60 Ag (MIRA 18:8)

1. Chekhoslovatskaya Akademiya nauk.

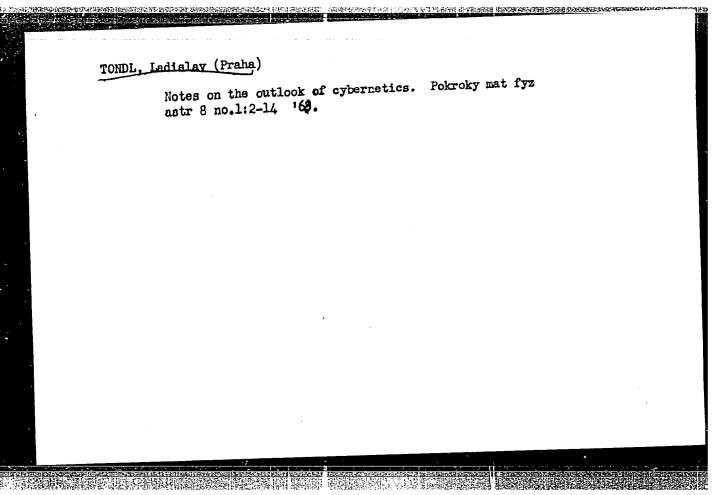
165.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756220020-6"

PEREZ, Albert, dr. DrSc.; TONDL, Ladislay, doc. dr CSc.

The subject of cybernetics. Kybernetika 1 no.1:4-11 '65.

1. Institute of Information Theory and Automation of the Czechoslovak Academy of Sciences, Prague 2, Vysehradska 49. Submitted May 25, 1964.



TONDOS, Julian; GORSKA, Anna; RADECKI, Aleksander

1

Pulmonary tuberculosis and fitness for the teaching profession (attempted establishment of criteria). Gruzlica 30 no.9:867-874 162.

(TUBERCULOSIS, PULMONARY) (TEACHING)
(OCCUPATIONS AND PROFESSIONS)

HOLECEK, K.; TONDR, J.

Semioperational installation for continuous chemical nickel plating. Strojirenstvi 13 no.10:789-793 0 '63.

1. Vyzkumny ustav pro sdelovaci techniku, Praha.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756220020-6"

Tondr, J.

Safety of electric equipment in agricultural buildings. p. 106.

Vol. 10, no. 4, Apr. 1955. ELEKTROTECHNIK

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955, Uncl.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756220020-6"

ACC NR. AT7001785

SOURCE CODE: UR/3119/66/000/004/0057/0069

AUTHOR: Shvarts, K. K.; Tiliks, Yu. Ye.; Tone, D. K.; Ulmane, I. M.

ORG: Institute of the Physics AN LatSSR (Institut fiziki AN LatSSR)

TITLE: Radiation-chemical processes in ionic crystals. 1. Radiolysis of alkalihalide crystals under the influence of gamma rays

SOURCE: AN LatSSR. Institut fiziki. Radiatsionnaya fizika, no. 4, 1966. Ionnyye kristally (Ionic crystals), 57-69

TOPIC TAGS: ionic crystal, alkali halide, gamma radiation, radiolysis, radiation chemistry, color center, physical diffusion

ABSTRACT: This is the first of a cycle of investigations of the radiation-chemical processes occurring in ionic crystals, aimed at determining the relation between radiolysis and radiation defects. The investigations were made on KCl, KBr, KI, and CaCl crystals grown by the Kiropoulos method from the raw material. The irradiation was in the RK-L radiation loop, which is described elsewhere (in: Radiatsionnaya fizika [Radiation Physics] v. 2, 35, Riga, 1964) at doses from 200 to 1400 rad/sec. The test procedures are briefly described. The results show that the stable products are the free halogen and electronic and colloidal centers. The radiation-chemical yields of the radiolysis products are of the order of 10-2 mole per absorbed 100 ev of

Card 1/2\_\_\_\_\_

energy. The radiolysis process depends to a great degree on the presence of impurity defects. Doubling of the impurity content increases the radiation-chemical yield of defects. Doubling of the impurity content increases the radiation-chemical yield of the radiolysis products from the irrather radiolysis products by an average of 20%. The radiolysis products from the gas-diated crystals change little with time. All that occurs is the diffusion of the gas-diated crystals change little with time. All that occurs is the diffusion for transformed causes an increase in the yield of the metallic product. The amount of transformed causes an increase in the yield of the metallic product. The amount of transformed causes and content of the product of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary, especially on the temperature dependence of the yield of the metal search is necessary.

ACC NR: AP6033517		CODE: UR/0413/66/		• .
INVENTOR: Grzhimal'skiy, L. Rastorguyev, V. S.	L.; Stukalov, K. I.;	Surikov, L. S.;	Tone, E. R.	• •
ORG: none				
TITE: Brazing alloy for ste	ainless steel. Class	49, No. 186265		
SOURCE: Izrobret prom obraz	tov zn, no. 18, 1966	, 148	٠	
TOPIC TACS: stainless steel taining alloy, copper, alloy 6ASE  ABSTRACT: This Author Certinickel, silicon, and copper.	ficate introduces a _	copper-base brazi	og allov co	ntaining
the alloy contains 14-10 in	2)		·	• ;
the alloy contains 14—16% n SUB CODE: 11, 13/ SUBM DATE:	2)	5100		
the alloy contains 14-10 in	2)			
the alloy contains 14-10 in	2)			
the alloy contains 14-10 in	29Jan65/ ATD PRESS:		,	

ORG: none		6		,1	
TITLE: A1	loy for vacuum-t	ight brazing of	stainless ste	el. Class 49,	No. 186264
SOURCE: I	obret prom obra	z tov zn, no. 1	3, 1966, 148		·
TOPIC TAGS containing	brazing alloy alloy	, tin containin	g alloy, boron	n containing all	oy, nickel
vacuum-tigi	This Author Ce at brazing of st 1% boron, and 0.	ainless steel. '	To improve the	e quality of bra	lloy for zed joints,
SUB CODE:	11/ SUBM DATE:	03Feb65/ ATD	PRESS: 5101		,
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EWT(m)/EWP(v)/T/EWP(t)/EWP(k) JD/HM L 22644-66 SOURCE CODE: UR/0413/66/000/005/0114/0114 ACC NR. AP6009556 INVENTOR: Grzhimal'skiy, L. L.; Rastorguyev, V. S.; Surikov, L. S.; Tone, E. R. 3/ B ORG: none TITLE: Brazing alloy for stainless steel, copper, and their combinations. Class 49, No. 179598 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 114 TOPIC TAGS: metal brazing, brazing alloy, copper alloy, beryllium containing alloy, tin containing alloy, silicon containing alloy, boron containing alloy ABSTRACT: This Author Certificate introduces a brazing alloy for stainless steel, copper, and their combinations. To increase the vacuum tightness of the joint and ensure low pressure of saturated vapors at temperatures up to 800C, the alloy composition is set as follows: 0.6% beryllium, 5% tin, 1.5% silicon, 0.1% boron, and the remainder copper. S SUB CODE: 11/ SUBM DATE: 15Jan65/ ATD PRESS:4228 Joining of dissimilar metals # UDC: 621,791,36:669,35 Card 1/1 del

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756220020-6"

# Our contribution to further development in animal husbandry. Veterinaria 38 no.10:27-30 0 '61. (MIRA 16:2) 1. Glavnyy veterinarnyy vrach Kotovskogo rayona Moldavskoy SSR. (Kotovskoye District (Moldavia)—Veterinary medicine)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756220020-6"

。 1987年 - 1985年 -

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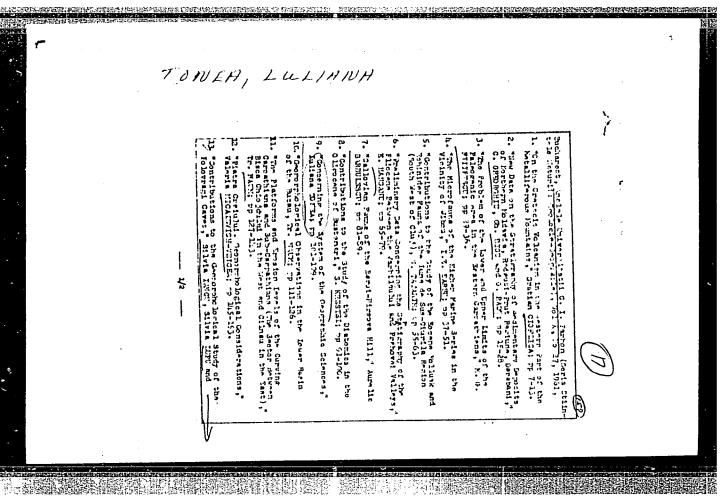
1. Iz Katedrata po mikrobiologiia i virusologiia pri ISUL [Institut za spetsializatsiia i usuvurshenstvuvane na lekarite] (Rukovod. na katedrata prof. D. Khadzhidimova). Nauchno-izsledovatelskiia institut po pediatriia (Direktor dots. St. Kolarov). Katedrata po mikrobiologiia pri VMI [Vissh meditsinski institut] v Sofila (Rukovod. na katedrata prof. Sv. Burdarov) i Nauchno-izsledovatelskiia institut po epidemiologiia i mikrobiologiia (Direktor VI. Kalaidzhiev). (ADENOVIRUS INFECTIONS)

NIXOLAEV, Gr., dots.; TGNEV, lv.

Short notes on the geologic structure of the Chiprovtsi and Gorni
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[publ. '63]

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On some complications of corticotherapy in nephropathy. Med. intern. 14 no.9:1141-1146 S '62.

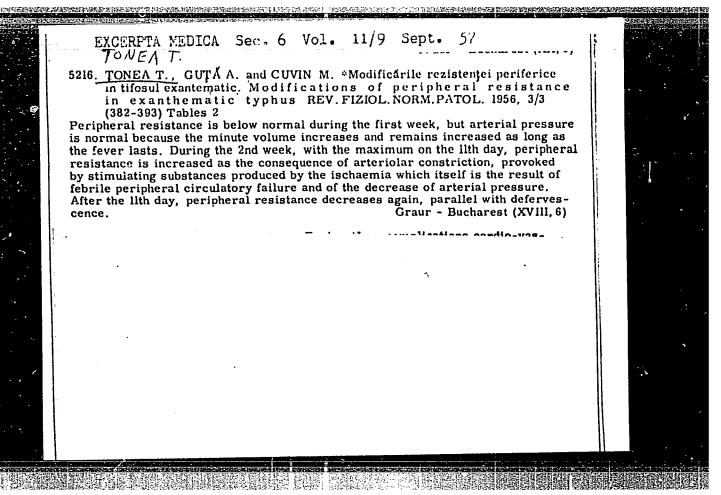
1. Spitalul M.T.Tc nr. 1, Bucuresti.
(KIDNEY DISEASES)
(HYPERTENSION) (HEMATURIA) (EDEMA) (PROTEINURIA)

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(TYPHUS, physiol. arterial elasticity, determ. by central pulse rate)



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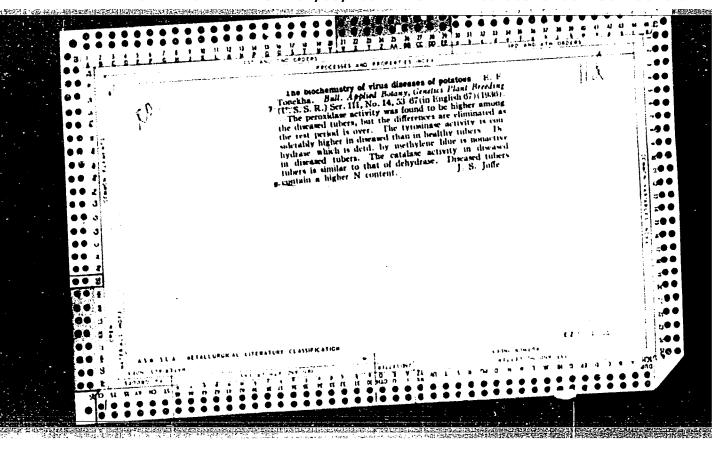
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(TUBERCULIN REACTION

difference in tuberculin allergy & allergy to B.C.G. bodies, discovery by Rumanians)

TOWARD MORE expedient utilization of our cements. "(p. 18)
ARKHITENTURA I STROITENSTVO
(Ministerstvo na stroezhite i putishtata, Ministerstvo na komunalnoto stopanstvo i
blagoustroistvoto, i Mausian tekhnicheskiia suluz) Sofia Vol 3 No 16 1953

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Concerning the quality of the concrete. p. t.

STROITELSTVO, Sofiia, Bulgaria, Vol. 6, no. 3, 1959

Oct. Monthly List of East European Accessions (EEAI) LC, Vol. &, No. 10, /1959 Uncl.

KRUSTINOV, G., prof.; KAZANDZHIEV, R.; KOLFV, N.; BELEV, V.; TONEV, B.

Our experience with the use of a film-forming substance in the treatment of burns. Khirurgiia 17 no.2:150-152 '64.

1. Iz Visshiia voennomeditsinski institut, Sofiia.

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"Our contribution to further development of animal husbandry"
Veterinariya, Vol. 38, no. 10, October 1961, pp. 27

L 4374-66

ACC NRI APSO28433

SOURCE CODE: EU/0011/65/018/001/0085/0088

16

AUTHOR: Tonov, E.; Shindarov, L.; Konstantinova, B.; Vassileva, V.

ORG: Department of Microbiology and Virology, Department of Pathological Anatomy, Post-Graduate Medical Institute, Sofia

TITIE: Sensitivity of newly born albino mice to the shoop abortion virus upon intraportotonoal infection

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 1, 1965, 85-88

TOPIC TAGS: mouse, virus, virology, pathology, histology

ABSTRACT: J. T. Stamp et al. (Vet. Res., 1950, 251-254) were the first to isolate the sheep abortion virus. F. R. Giroud et al. (Acad. Vet. Fr., 25, and killed on the 15-th day, while H. Parker (Vet. Res. 21, 1960, No 81, 243-250) and D. Saratianu et al. (Stud. cerc. inframicrobiol,XII, 1961, 1, 95-103) corpuscles. Nevertheless, the problem of finding a convenient laboratory model for experimental infection remained of considerable interest because of its infection. Consequently, the suthors attempted sensitivity tests to the Card 1/2

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sensitive to after the infect in the liver of in the newborn displacement of great swelling apparate organs in particular. In addition to infiltrates observates, although There is a she plasmorrhagia appared by Toshkov. Correst	intraperitoneal infection; in on. The elementary corpusche infected animals. The positive infected animals. The positive infected with the virus the elements of the reticulous of the reticulous of the reticulous of the reticulous of the endougher giant cells are four he reticulous of the infection of the endougher of the organs which are in most instances they show rely pronounced stasis in and extravasates. The pathology of the proposition of the proposition of the proposition of the pathology	es of the virus are to be found athohistological changes occurring us consist of a general endothelial system resulting in thelia of the vessels of the 1s of the liver and spleen and in the liver and the spleen. These, there are lympho-leucocytic of a diffuse character in some a focal perivasal position.	3.
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TONEV, E.; SHINDAROV, L.; KONSTANTINOVA, B.; VASSILEVA, V.

Sensitivity of newly born albino mice to the right of abortion in sheep upon intraperitoneal infection. Dokl. Bolg. akad. nauk 18 no.1:85-88 '65

1. Submitted September 16, 1964.

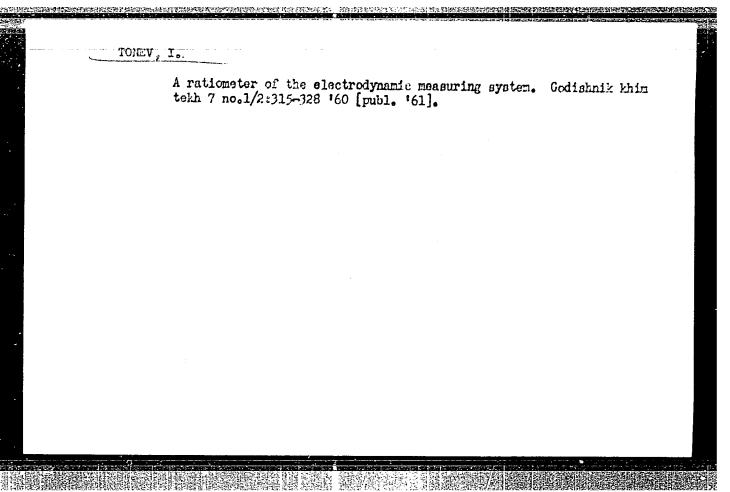
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DRAGOLOV, T.; TONEV, G.; INVANOV, V.

Mechanical breaking down of coal in the fronts of oper-pit mines, supported with metal props. p. 27. Minno Delo Vol. 13, No. 3, May/June 1958, Sofiia, Bulgaria.

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 10, Oct. 58

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能够的原义的研究,但我们就是这种,我们就是一个人,不是对于他们的人,就是这种的人,这种人的人,这种人们的人,他们也是这种的人,也是这种人的人,也是一个人,也是一

g/196/63/000/003/001/012 A052/A126

Marinov, Yu., Tonev, I. AUTHORS:

On some m-derived RC-filters TITLE:

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no. 3, 1963, 14, abstract 3A62. (Godishnik Khim.-tekhnol. in-t, v. 7,

no. 1 - 2, 1960 (1961), 271 - 280, Bulg.; summaries in Russian

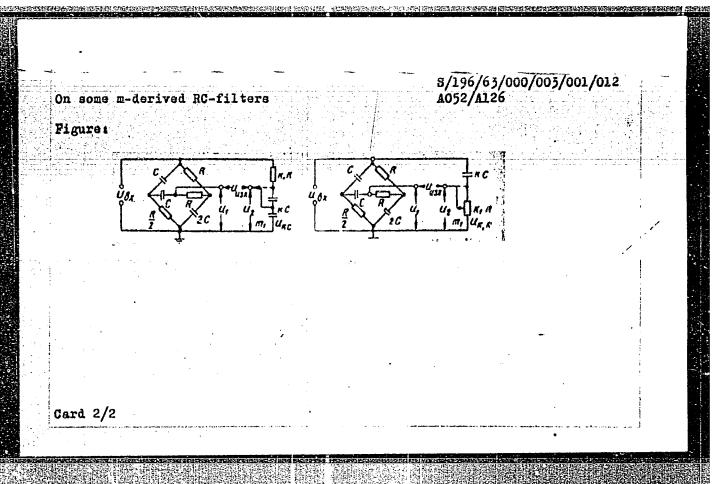
and German)

A new possibility is discussed of obtaining m-derived RC-filters TEXT: which consist of a double T-shape bridge with a zero minimum of frequency characteristic and a 2-element RC-group. The circuits of the proposed filters are shown on the graph. Investigations show that these filters have a lower frequency-characteristic steepness but have an output voltage twice as high as that of existing m-derived RC-filters. There are 9 figures and 2 references.

T. Senitskaya

[Abstracter's note: Complete translation.]

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。 1985年,1987年,1988年

MARINOV, IU.; TCMEV, I.

Some forms of the m-derived RC filters. Godishnik khim tekh 7 no.1/2:271-280 '60 [publ. '61].

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MARINOV, IUL.; TONEV, IL.

On some varieties of tube phasemeters. Godishnik khim tekh 8 no.2:195-205 %61 [publ. %62].

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Metallogeny of the Chiprovtsi-Gorni Lom ore deposits. Godishnik
Min geol inst 9:309-326 '62-'63[publ. '64].

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Geology of the region around the village of Kopilovtsi, and mineralization of the auriferous quartz-sulfide veins. Godishnik Min geol inst 7:23-36 %60/%61 [publ. %62].

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The all-seeing eyes. Nauka i tekh mladezh 17 no.1:22-30
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BULGARIA

TONEY, Dr. M., VIZPB

"Disinfection of Imported Hides of Cattle and Other Animals"

Sofia, Veterinarma Sbirka, Vol 63, No 8, 1966, pp 12-14

Abstract: Formerly, Bulgaria exported lamb skins, kidskin, and hides of wild animals, while hides of cattle and calves were imported. At present, raw hides of lambs, skins of goats, and kidskin are also imported for the needs of the leather industry. In this connection, the danger exists that infectious diseases affecting farm animals may be imported in. This danger is particularly acute in view of the fact that a large amount of hides is imported from African countries, where conditions with respect to epizootics are unfavorable. Hides from countries in which the occurrence of variola, glanders, infectious anemia, infectious pleuropneumonia, and brucellosis among animals is suspected must be disinfected by procedures that are described. No references.

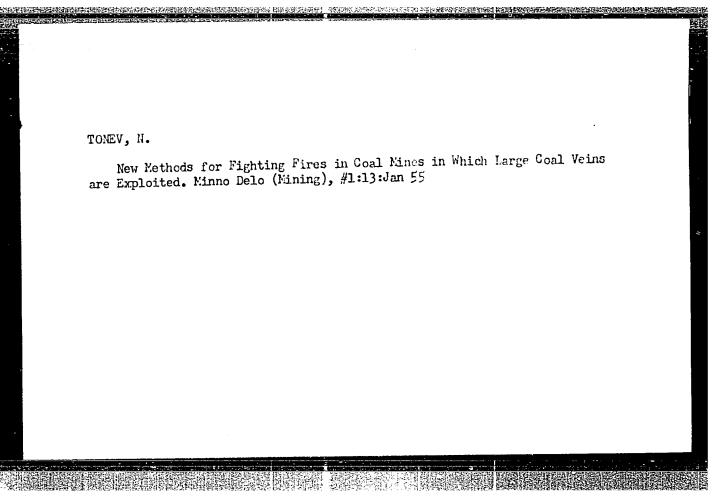
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TONEV, M.

TONEV, M. Characteristics of the hides of different breeds of cattle in our country, in view of their use for industrial products. p. 26. Vol. 5, no. 11, 1956 ELEKTROENERGIIA. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 4--April 1957



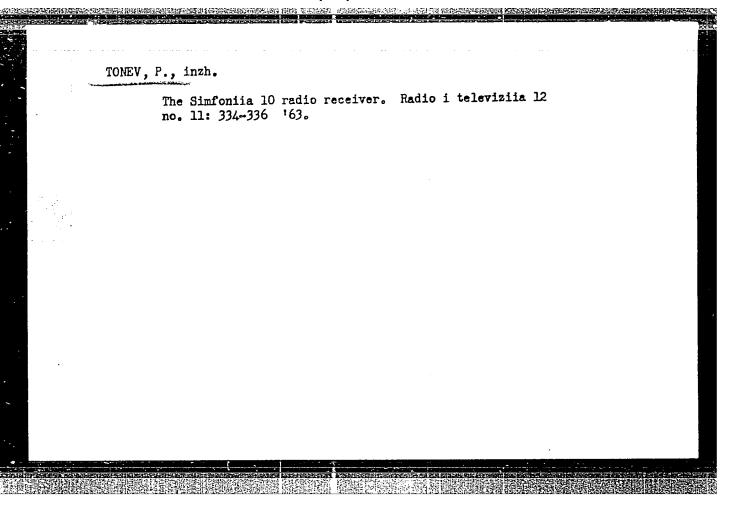
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New methods for fighting fires in coal mines with large strata. p. 13. MINNO DELO, Sofiya, Vol. 10, no. 1, Jan./Feb. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

Toney, E. Morr methods for fighthing three in coal mines with large strets. p. 13. 12100 DMLC. Sofiys. Vol. 10, no. 1, Jen./Feb. 1255.

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TONEY, S.

Industrial characteristics of the Kremikovtsi iron deposits and the results of the accomplished geologic research work. p. 65
First Bulgarian Ac-1 loading machine. p. 81
Machine for cleaning mining cars. p. 82
Development of the coal industry in the Chinese People's Republic. p. 85
Engineer-geologist Iovcho Smilov Iovchev was elected member of the Bulgarian
Academy of Sciences. p. 92
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Thematic outline for instructing the rationalizers in solving some basic problems of the coal-mine industry during 1958. p. 95
Minno Delo Vol. 13, No. 3, May/June 1958, Sofiia, Bulgaria.

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DEICHEV, A.G. (Narodnaya Respublika Bolgariya); TONEV, S.N.

(Narodnaya Respublika Bolgariya)

Mineral resources in Bulgaria. Razved.i okh.nedr 25 no.ll:
60-63 N '59.

(Bulgaria--Mines and wineral resources)

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TORIVA. V., starshiy nauchnyy sotrudnik, doktor; MATVEYEV, M., mladshiy nauchnyy sotrudnik, doktor.

A case from practice. Veterinariia 35 no.2:43-44 F '58. (MIRA 11:2)

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TOSHKOV, Ag.; IVANOV, V.; SOBEVA, V.; GANCHEVA, TSv.; RANGELAVA, St.;
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Antibacterial, antiviral, antitoxic and cytopathogenic properties of protoanemonin and anemonin. Antibiotiki 6 no.10;918-924 0 '61.

1. Nauchno-issledovatel'skiy institut epidemiologii i mikrobiologii, Sofiya, Bolgariya.

(ANEMONIN) (PROTOANEMONIN)

TONEVA, V.

Live avirulent vaccine against fowl cholera. Pt. 4. Izv
Vet inst zaraz parazit 7 77-83 '63.

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Cases of listeriasis in donestic animals in Bulgaria.

Izv. mikrob. inst., Sofia 7:103-106 1956.

1. St. nauchen sutrudnik.

(LISTERIA, infections.

in domestic animals in Bulgaria (Bul))

TONEVITSKIY, G. G.

Cand Agr Sci - (diss) "Economic indices and several biological characteristics of swine in connection with heterosis." Novo-cherkassk, 1961. 16 pp; (Ministry of Agriculture RSFSR, Novo-cherkassk Zooveterinary Inst imeni First Mounted Army); 150 copies; price not given; (KL, 6-61 sup, 233)

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TONEVITSE				ith hotomosis			
3. 21	Some physiological features of swine connected with heterosis.  Zhur.ob.biol. 21 no.1:66-69 Ja-F 60. (MIRA 13:5)						
1	1. Vitebak Veterinary Institute. (HETEROSIS) (SWINEPHYSIOLOGY)						

-EdI(m)/EdP(t)ACC NR: AP6019612 (A,N) SOURCE CODE: UR/0048/66/030/002/0232/0234 AUTHOR: Barashenkov, V.S.; Mal'tsev, V.M.; Toneyev, V.D. ORG: Theoretical Physics Laboratory, Joint Institute for Nuclear Research Laboratoriya tecreticheskoy fiziki Ob yedinennogo inwtituta yadernyka isalwayanty)) women TITLE: Muclear reactions on Ir, Ta, and Er, induced by protons with energies up to 85 May /Report, Pifteenth Annual Conference on Buglear Spectrescone and Buclear Structure, held at Minsk, 25 January to 2 February 1965/ SOURCE: Al SEER. Izvestiya. Seriya fizicheskaya, v. 30, no. 2, 1966, 232-234 TOPIC TAGE: anchear reaction, compound nucleus, cascade, reaction mechanisms ABSTRACT: Monte Carlo calculations of excitation functions for (p,xa) reactions (x = 1, 2, 3, ...) were performed under the following two assumptions concerning the reaction mechanism: 1) the target nucleus is excited by capture of the incident proton with formation of a compound nucleus; and 2) collision of the primary proton with the target nucleus gives rise to an intranuclear cascade, efter which the nucleus is left in an excited state. It was assumed in both cases that de-excitation is realized by evaporation of nucleons. The calculated excitation curves were compared with the experimental data of L. Yaffe and collaborators (Canad. J. Chem. 41, 2533, 2544, 2576 (1963)) on the Ir, Ta, and Er reactions at proton energies from 8 to 85 MeV. Comparison of the calculations with the experimental data for the Card 1/2

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Ta<sup>181</sup> (p,xm) reactions for x = 1, 3, 4, 5, and 6 showed that the contribution of compound nucleus formation decreases smoothly from 100% at proton energies below 20 MeV to about 20% at a proton energy of 85 MeV. The calculated excitation functions were in quentitative agreement with the experimental data, except for the cases x = 1 and x = 4, where the deviations somewhat exceeded the experimental error. The dependence on proton energy of the relative contribution of the two reaction mechanisms derived from the Ta<sup>181</sup> (p,xm) data was employed to calculate excitation functions for Ta<sup>181</sup> (p,pxm) reactions and for reactions on Ir and Er. Satisfactory agreement with the experimental data was found. The agreement was particularly good for the Ta<sup>181</sup> (p,4m) reaction. It is concluded that the cascade-evaporation model gives a correct qualitative, and in some cases a quantitative, description of the nuclear interaction process in the 20 to 80 MeV incident particle energy range, but that it is not in; a position to account for some details, such, for example, as (p,n) exchange scattering, fluctuations of the total interaction cross section, and quasifree scattering with subsequent emission of one or two neutrons. The model could be improved by introducing a diffuse nuclear boundary. Orig. art. has:

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ACC NR: AP6019626 (A, N) SOURCE CODE: UR/0048/66/030/002/0322/0327

AUTHOR: Barashenkov, V.S.; Mal'tsev, V.M.; Toneyev, V.D.

ORG: Theoretical Physics Laboratory, Joint Institute for Nuclear Research (Laboratoriya teoreticheskoy fiziki Ob"yedinennogo instituta yadernykh issledovaniy)

TITLE: Interaction of fast protons with heavy nuclei /Report, Fifteenth Annual Conference on Nuclear Spectroscopy and Nuclear Structure, held at Minsk, 25 January to 2 February 1965/

SOURCE: AN SSSR. Izvestiya i Seriya fizicheskaya, v. 30, no. 2, 1966, 322-327

TOPIC TAGS: nuclear reaction, cascade, evaporation, nuclear fission, proton bombard-ment, uranium, nuclear model

ABSTRACT: The authors have employed a) computer to perform Monte Carlo calculations of the interaction of 10 to 700 MeV protons with  $U^{238}$  nuclei on the basis of the cascade-evaporation model, and have compared the results with experimental data from different sources.  $MU^{238}$  was chosen for the calculations because ample experimental data are available for it. For the calculations it was assumed that the nuclear radius is  $1.3A^{1/3} \times 10^{-13}$  cm, and calculations were performed for the two values A/10 and A/20,  $MeV^{-1}$  for the level density. Comparisons of the calculated results with experimental data are presented for the following features of the process: the fission and total inelastic interaction cross sections as functions of proton energy; the angular dis-

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tributions of the charged particles ejected by 460 and 660 MeV protons; the energy distributions of protons and  $\alpha$  particles accompanying fission induced by 660 MeV protons; the distributions of fissions induced by 140, 460, and 660 MeV protons with, respect to the number of accompanying charged particles; the number of moderate-energy ejected neutrons as a function of the proton energy; and the cross sections for producing different fragments as functions of the mass number of the fragment. In general, rather good agreement was obtained between theory and experiment. The agreement was better, and in some cases much; better, when the A/10 MeV 1 level spacing was used in the calculations than when the A/20 MeV-1 spacing was used. The ratio of the fissionto the evaporation-width given as a function of energy by the statistical theory of I. Dostrovsky, Z. Fraenkel, and P. Rabinowitz (Proc. of the Second United Nations Internat. Confer. on Peaceful Uses of Atomic Energy, Geneva, v. 15, p.1615 (1958)) was used to calculate the yields of Np, U, Pa, Th, and As fragments as functions of their mass numbers. The calculations for Pa, Th, and As were in agreement with the experimental data, but the calculated yields of Np and U fragments were considerably higher than the experimental yields. The discrepancy is ascribed in part to neglect of quasielastic scattering in the calculations, and in part to the fact that the experimental cross sections of M.Linder and R.N.Osborne (Phys.Rev., 103,378 (1956)) are too low. It is concluded that the cascade-evaporation model and the statistical theory of heavy nucleus fission are in good agreement with experiment in the energy range from 100 to 660 MeV, but that there are discrepancies regarding the yields of certain fragments that can be removed only by taking into account quasi-elastic scattering and the

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UTHOR:	Barashenkov, V.S.; Mal'tsev, V.M.; Toneyev, V.D.
atoriya	coretical Physics Laboratory, Joint Institute for Nuclear Research (Labor-teoreticheskoy fiziki Ob. yedinennogo instituta yadernykh issledovaniy)
TITLE:	Calculation of fast particle initiated nuclear fission /Report, Fifteenth
Annual (	onference on Nuclear Spectroscopy and Nuclear Structure, held at Minds,
25 Janua	ry to 2 February 1965/
SOURCE:	AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 2, 1956, 337-340
TOPIC TA	GS: nuclear fission, nuclear model, cascade, expression, proton bombardment
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of the evapora 434 (19 U <sup>238</sup> wa for it. the sam	The authors have employed a computer to perform Monte Carlo calculations ission of y <sup>238</sup> induced by up to 700 MeV protons on the basis of the cascade-ion model and the statistical theory of fission of P.Fong (Phys.Rev., 102, 66)), and have compared the results with experimental data from several sources chosen for the calculations because the most experimental data are available other features of the interaction of fast protons with U <sup>238</sup> , calculated at time, are discussed elsewhere by the authors (Izv. AN SSSR Ser. fiz., 30,322) (See Abstract AP6019626/). The calculations are described very briefly.Legentials up to only the third degree were employed in the expressions for the
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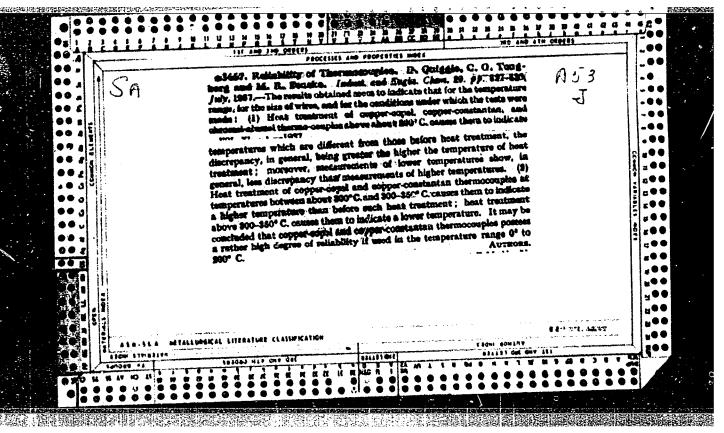
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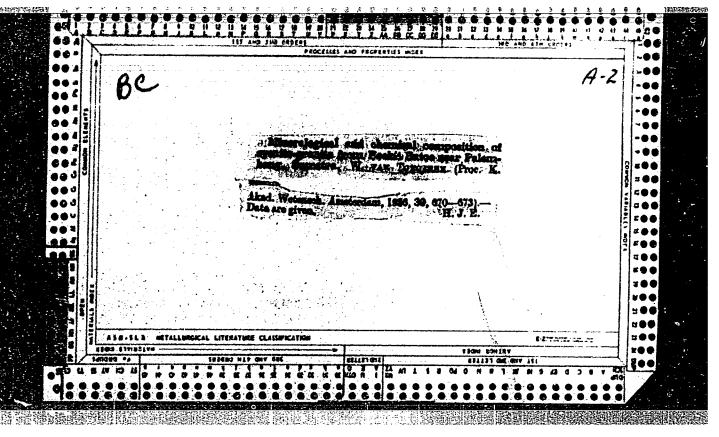
shapes of the fragments at the moment of fission, but the effect of higher powers of the deformation factor on the Coulomb energy was taken into account by the use of effective deformation parameters that were calculated by a successive approximation method. It is asserted that that technique made it possible more simply to obtain the same results as those obtained with the use of Legendre polynomials up to the 15-th degree by G.A.Pik-Pichak and V.M.Strutinskiy (Sb. Fizika deleniya atomnykh yader, str. 12. Gostekhizdat, M., 1962). The position of the maximum of the theoretical curve giving yield as a function of fragment mass for fissions initiated by 340 MeV protons was in good agreement with that of the experimental curve of P.S.Stevenson, H.G. Hicks, W.E.Nervik, and D.R.Nethaway (Phys.Rev., 111, 886 (1959)) and the calculated total fission cross section was in good agreement with experimental values, but the calculated yield for highly asymmetric fission was significantly below the experimental yield. That discrepancy is ascribed to an unspecified simplification employed in the calculations. The calculated yields of cs 134 - Cs 137 fragments as functions of the incident proton energy were in good agreement with experimental data (when adjusted to the experimental yields at a proton energy of 350 MeV) for proton energies above 200 MeV. The experimental yields of Cs<sup>135</sup> and Cs<sup>137</sup> at lower proton energies were considerably higher than the calculated yields, and it is suggested that the discrepancy may be due to the effect of a second fission mechanism. It is concluded that the statistical theory of fission, together with the cascade-evaporation model, gives a good account of the main features of the fission of heavy nuclei initiated by particles

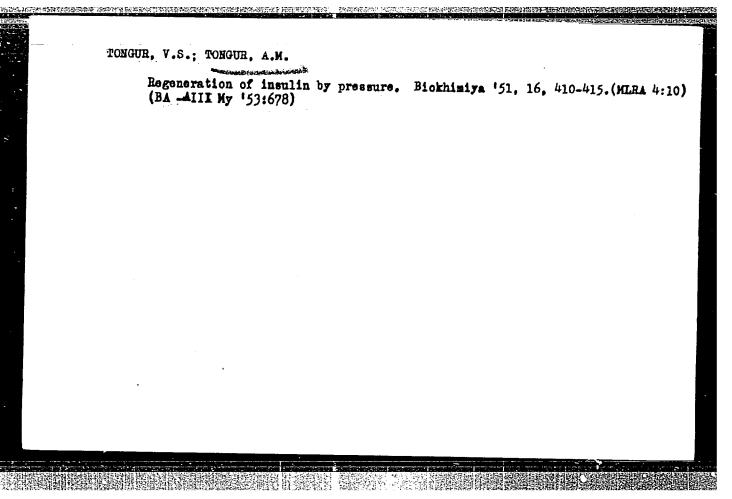
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(RADIATION—PHYSIOLOGICAL REFECT)

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(X RAYS—PHYSIOLOGICAL EFFECT)

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EPSHTEYN, I.M., prof.; VAYNBERG, Z.S., kand.med.nauk; TONGUR, A.M., kand.khim.nauk

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